

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference F-245-PCT	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/KR2004/000305	International filing date (day/month/year) 16 FEBRUARY 2004 (16.02.2004)	(Earliest) Priority Date (day/month/year) 07 NOVEMBER 2003 (07.11.2003)
Applicant KANG, Hamm-chan		

This International search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 3 sheets.

☐ It is also accompanied by a copy of each prior art document cited in this report.

1. **Basis of the report**

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box No. II)

3. ☐ **Unity of invention is lacking** (See Box No. III)

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the **drawings**,

a. the figure of the **drawings** to be published with the abstract is Figure No. 2

☒ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

b. ☐ none of the figure is to be published with the abstract.

A. CLASSIFICATION OF SUBJECT MATTER

IPC7 A43B 13/14

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7 A43B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
KR, JP : IPC as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 10-165203A(Shimizu Shigeki) 23 June 1998 See page2 [0004]- page3 [0005], claim 1 Figures 1,5	1-2
A	US 5,231,776 A(Rodger D. Wagner) 3 August 1983 See column 2. line 36 - column 2 line 47 Figure 2	1
A	US 5,638,613 A(James H. Williams) 17 June 1997 See the whole document	1
A	JP 11-046806 A(Shiraki Daijiro) 23 February 1999 See the whole document	1
A	Patent Abstracts of Japan, JP 2000-312602 A(Sumitomo Rubber Ind Ltd.)	1

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family


Date of the actual completion of the international search

05 AUGUST 2004 (05.08.2004)

Date of mailing of the international search report

05 AUGUST 2004 (05.08.2004)

Name and mailing address of the ISA/KR


 Korean Intellectual Property Office
 920 Dunsan-dong, Seo-gu, Daejeon 302-701.

Authorized officer

SHIN, Sang Kon



INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.
PCT/KR2004/000305

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP 10-165203	23-06-98	None	
US 5,231,776	03-08-93	None	
US 5,638,613	17-06-97	None	
JP 11-046806	23-02-99	None	
JP 2000-312602	14-11-00	None	

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To:

KOREANA PATENT FIRM

Dong-Kyung Bldg. 824-19, Yoksam-Dong, Kangnam-Gu,
Seoul, 135-080, Republic of Korea

PCT

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

(PCT Rule 43bis.1)

Date of mailing
(day/month/year) 05 AUGUST 2004 (05.08.2004)

Applicant's or agent's file reference
F-245-PCT

FOR FURTHER ACTION

See paragraph 2 below

International application No.

PCT/KR2004/000305

International filing date (day/month/year)

16 FEBRUARY 2004 (16.02.2004)

Priority date(day/month/year)

07 NOVEMBER 2003 (07.11.2003)

International Patent Classification (IPC) or both national classification and IPC

IPC7 A43B 13/14

Applicant

KANG, Hamm-chan

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/KR



Korean Intellectual Property Office
920 Dunsan-dong, Seo-gu, Daejeon 302-701,
Republic of Korea

Authorized officer

SHIN, Sang Kon



WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/KR2004/000305

Box No. 1 Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ This opinion has been established on the basis of a translation from the original language into the following language _____, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).

2. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:

a. type of material

- ☐ a sequence listing
☐ table(s) related to the sequence listing

b. format of material

- ☐ in written format
☐ in computer readable form

c. time of filing/furnishing

- ☐ contained in the international application as filed.
☐ filed together with the international application in computer readable form.
☐ furnished subsequently to this Authority for the purposes of search.

3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

4. Additional comments:

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/KR2004/000305

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1-3	YES
	Claims		NO
Inventive step (IS)	Claims	3	YES
	Claims	1-2	NO
Industrial applicability (IA)	Claims	1-3	YES
	Claims		NO

2. Citations and explanations :

D1 : JP-A-10165203

I -Novelty

D1 is considered to represent the most relevant state of the art. It discloses a sole part and a shoe securing required weight in a place of heavy inner pads and further having comfortability to use and sufficient durability. The subject matter of D1 differs from the present claim 1 not only in that the space(3) formed in the inside area of a shoe is not circular type, but also in that the form of weight member is a plate or a block. Thus, the novelty of the subject matter claimed can be acknowledged.

II -Inventive step:

(1) Concerning claim 1

D1 discloses that a certain numbers of hole-shaped spaces are formed in the central portion of a sole of a shoe except for an upper surface of outer peripheral part of the sole of said shoe. It also shows that the weight members in the form of a plate or a block are inserted in said spaces in the sole. Claim 1 discloses that multiple circular-shaped spaces are formed in the central portion of a sole of a shoe, and a circular weight members are inserted in said spaces in the sole. So the comparison between D1 and claim 1 shows that the only difference is the shape of hole and weight member. A slight change in the shape of the present invention comes within the scope of the customary practice done by a person skilled in the art. Also, the effect caused from a circular shape weight member in claim 1, compared with that from the longitudinal shape weight member in D1 is not being testified by concerning specification. Therefore, the subject matter of claim 1 does not appear to involve an inventive step in the sense of Article 33(3) PCT.

(2) Concerning claim 2

D1 discloses that the weight members in the sole close to the heel part are larger than those in the front part of the sole of a shoe. Claim 2 shows the same arrangement of the weight members according to the size of weight members. Therefore, the subject matter of claim 1 does not appear to involve an inventive step in the sense of article 33(3) PCT.